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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/821,948	-	03/30/2001	Douglas E. Duschatko	M-8353 US	3891
33031	7590	12/16/2004		EXAMINER	
		TEPHENSON ASC OD SPRINGS RD.	TON, DAVID		
BLDG. 4				ART UNIT	PAPER NUMBER
AUSTIN.	, TX 7	8759		2133	
				DATE MAILED: 12/16/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

			1
	Application No.	Applicant(s)	
Notice of Allematics	09/821,948	DUSCHATKO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	David Ton .	2133	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate commod RIGHTS. This application is	n this application. If not included	urse THIS
1. $igspace$ This communication is responsive to <u>Amendment filed 09</u>	<u>9/02/2004</u> .		
2. X The allowed claim(s) is/are 1-23 and 25-40 which are rer	numbered to 1-39.		
3. $igotimes$ The drawings filed on <u>13 July 2001</u> are accepted by the I	Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents ha 2. ☐ Certified copies of the priority documents ha 3. ☐ Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	ve been received. ve been received in Application	on No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	er of this communication to file IMENT of this application.	e a reply complying with the requi	rements
 A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi 	mitted. Note the attached EX ves reason(s) why the oath o	AMINER'S AMENDMENT or NOT or declaration is deficient.	TICE OF
 CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date 	rson's Patent Drawing Revie		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on to the header according to 37 CF	he drawings in the front (not the ba FR 1.121(d).	ck) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN	osit of BIOLOGICAL MAT TFOR THE DEPOSIT OF BIO	ERIAL must be submitted. Not OLOGICAL MATERIAL.	e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 6. ☐ Interview S Paper No.	nformal Patent Application (PTO-1 cummary (PTO-413), /Mail Date	52)
 Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date <u>09/02/2004</u> ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	,, <u> </u>	Amendment/Comment Statement of Reasons for Allowa David Ton Primary Examiner Art Unit: 2133	nce

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1. An Examiner's Amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 C.F.R.

1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the Issue Fee.

In the Specification, page 10, after line 12, insert 3 lines:

-- Figure 12 illustrates a state machine and multiple Galois field multiply

accumulators.

Figure 13 illustrates a Galois field unit. -

2. Claims 1-23 and 25-40 are allowed.

3. The following is an Examiner's Statement of Reasons for Allowance:

The prior art of record teaches the claimed invention substantially, but it fails to

teach or suggest singly or in combination an error insertion for verifying correct

operation of encoding and decoding circuits method by programmably selecting a

desired number of errors for insertion into a plurality of data signal, inserting into one of

the data signals the desired number of errors using an insertion circuit, and repeating

the inserting step in an iterative fashion to insert into different data signals the desired

number of errors wherein the errors are placed within the code words of the data signals

at different location permutations for each data signal as set forth in independent claim

1, 11, 16 and 37. The prior art of record also fails to teach or suggest singly or in .

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combination an OC-192 front-end ASIC including a transmitter having means for interleaving four OC-48 signals to create an OC-192 signal and means for encoding FEC codes in each of an OC-48 signal; a receiver having means for de-interleaving an OC-192 signal to create four OC-48 signals and means for decoding FEC codes in the OC-192 signal wherein said encoding means and said decoding means use a triple-error correcting BCH code as set forth in independent claim 32.

4.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Ton whose telephone number is (571) 272-3828. The examiner can normally be reached on M-Th from 5:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Ton

Primary Examiner

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